REBOLT ALLOYS

Manufacturing Process of Stainless Steel Fasteners

Raw Material Selection

- Stainless steel wire rods are selected
- SS 304 and SS 316 grades are commonly used
- Material is checked for quality and purity
- Wire rods are cleaned before processing
- Proper material improves fastener performance

Wire Drawing Process

Wire rods are passed through drawing dies to reduce their diameter to the required size. The process improves the surface finish and creates smooth, uniform wire thickness. Lubricants are used during drawing to reduce friction and improve efficiency.

Cutting and Heading

The wire is cut into specific lengths before the fastener heads are formed using cold heading machines.

Different head shapes are produced with high-speed manufacturing equipment.

The process ensures fast production while maintaining accurate dimensions and quality.

Thread Rolling Process

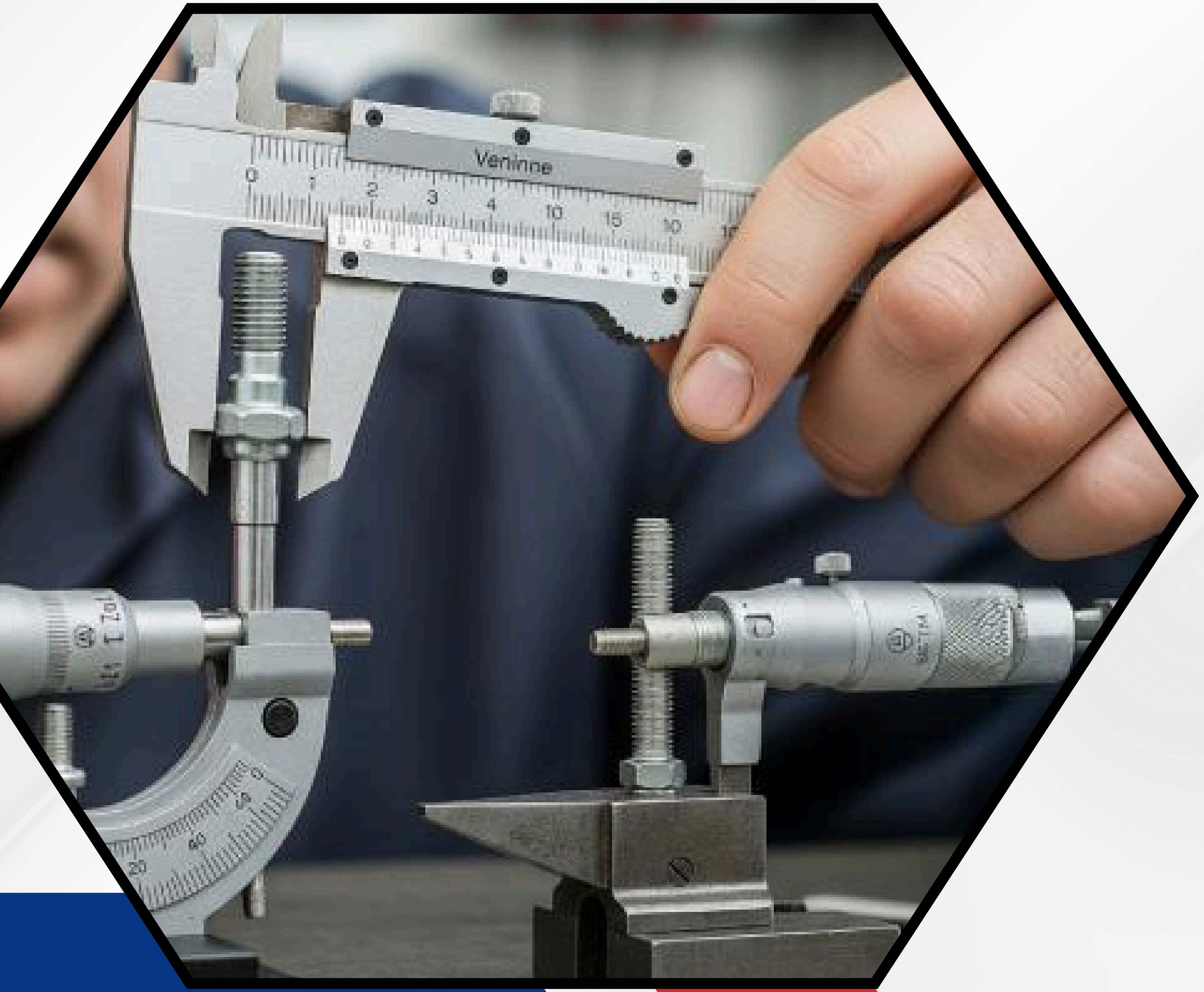
Threads are created using rolling dies to produce strong and precise fastener threads.
Cold rolling improves thread strength and provides a smooth surface finish.
The process is efficient, waste-free, and ideal for mass production.

Heat Treatment

Fasteners are heat treated to increase hardness and improve tensile strength.
The process removes internal stresses and enhances the metal structure through controlled cooling.
This improves the durability and performance of fasteners under heavy loads.

Surface Finishing

Fasteners are cleaned and polished to improve surface quality and appearance. Passivation and electro-polishing enhance corrosion resistance and provide a shiny finish.
The process removes surface contaminants and improves overall product quality.

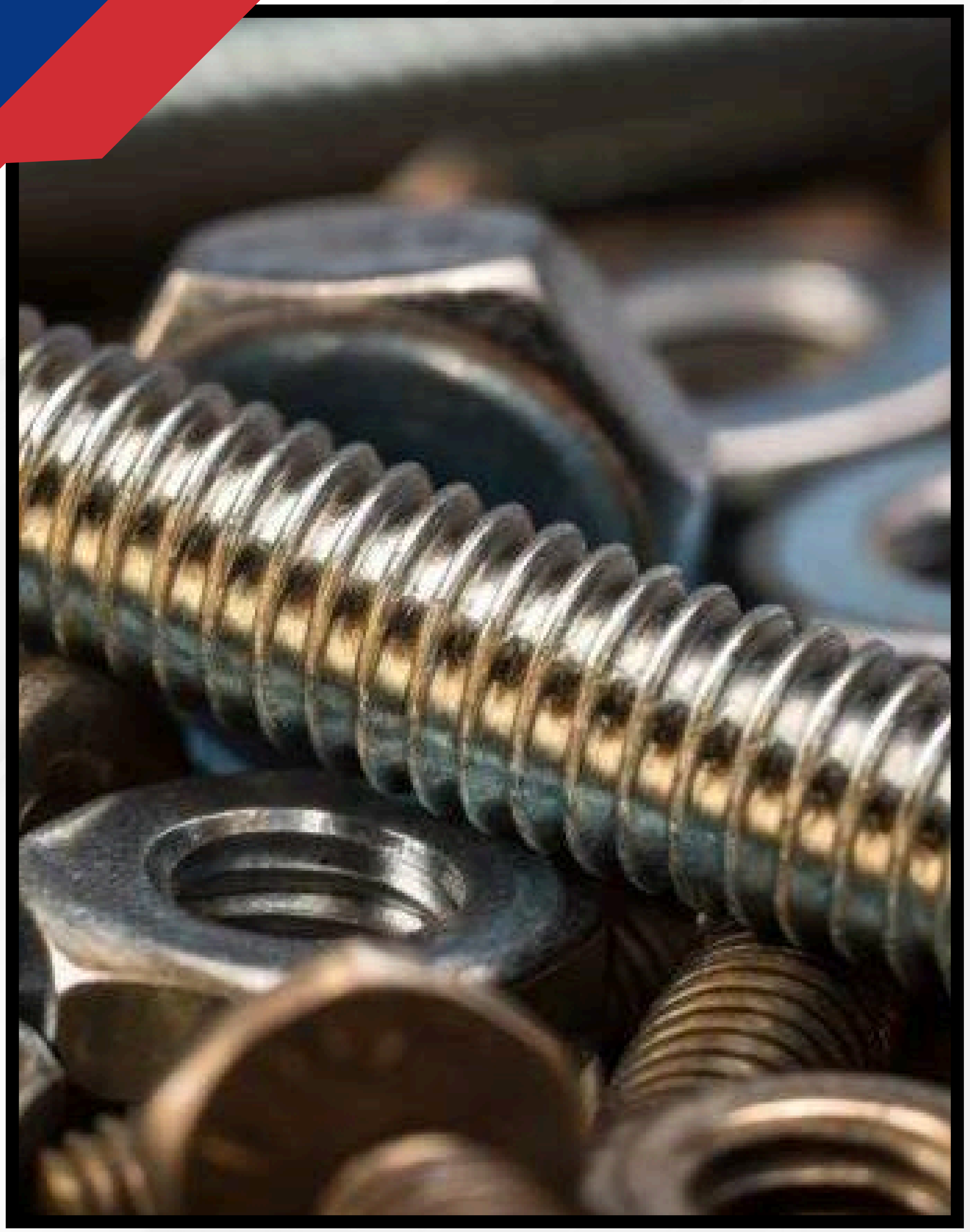


Quality Inspection

- Dimensions are checked carefully
- Thread accuracy is tested
- Hardness and strength are inspected
- Corrosion resistance tests are performed
- Defective products are rejected

Packaging and Storage

- Fasteners are sorted by size and type
- Packed in boxes or containers
- Labels include specifications and grades
- Stored in clean and dry conditions
- Proper packaging prevents damage



Applications

- Used in automotive industries
- Important in construction projects
- Suitable for marine applications
- Provides long-lasting performance
- Stainless steel fasteners ensure reliability

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